

CLAIM AMENDMENTS:

Please amend Claims 57, 61, 65, 69, and 74 as follows.

1.-56. (Cancelled)

57. (Currently Amended) An image reading system ~~connectable to~~
comprising a control apparatus detachably connectable through an interface ~~and to~~ an
image reading apparatus, ~~comprising~~ said image reading apparatus including a plurality of
light sources of mutually different light emission wavelengths, and a photoelectric
conversion unit which photoelectrically converts an image of an object illuminated by said
plurality of light sources, ~~wherein and~~ said control apparatus ~~includes~~ including a memory
which stores a light source control program corresponding to a first mode and another light
source control program corresponding to a second mode for controlling turn-on of said
plurality of light sources in a manner different from that in the first mode, and a turn-on
control unit which reads out from the memory one of the light source control programs,
and effects control of turn-on of said plurality of light sources in one of the first mode and
the second mode, through said interface according to the light source control program read
out from said memory.

58. (Previously Presented) A system according to Claim 57, wherein in the first mode and the second mode, said plurality of light sources are controlled so as to be turned on in a predetermined order.

59. (Previously Presented) A system according to Claim 57, wherein in the first mode and the second mode, said plurality of light sources are turned on in a predetermined order in such a manner that turn-on time periods of said plurality of light sources do not overlap with each other.

60. (Previously Presented) A system according to Claim 57, wherein in the first mode, a signal accumulated in said photoelectric conversion unit in response to turn-on of each of said light sources is read out sequentially in a first line period, and in the second mode, a signal accumulated in said photoelectric conversion unit throughout turn-on of said plurality of light sources is read out in the first line period once every time said plurality of light sources are turned on in a predetermined order.

61. (Currently Amended) A control apparatus detachably connectable through an interface to an image reading apparatus comprising a plurality of light sources of mutually different light emission wavelengths, and a photoelectric conversion unit which photoelectrically converts an image of an object illuminated by the plurality of light sources, said control apparatus comprising:

a memory which stores a light source control program corresponding to a first mode, and another light source control program corresponding to a second mode for controlling turn-on of the plurality of light sources in a manner different from that in the first mode; and

a turn-on control unit which reads out from said memory one of the light source control programs, and effects control of turn-on of the plurality of light sources, in one of the first mode and the second mode, through the interface according to the light source control program read out from said memory.

62. (Previously Presented) An apparatus according to Claim 61, wherein in the first mode and the second mode, the plurality of light sources are controlled so as to be turned on in a predetermined order.

63. (Previously Presented) An apparatus according to Claim 61, wherein in the first mode and the second mode, the plurality of light sources are turned on in a predetermined order in such a manner that turn-on time periods of the plurality of light sources do not overlap with each other.

64. (Previously Presented) An apparatus according to Claim 61, wherein in the first mode, a signal accumulated in the photoelectric conversion unit in response to turn-on of each of the light sources is read out sequentially in a first line period, and in the second mode, a signal accumulated in the photoelectric conversion unit

throughout turn-on of the plurality of light sources is read out in the first line period once every time the plurality of light sources are turned on in a predetermined order.

65. (Currently Amended) An image reading apparatus comprising a plurality of light sources of mutually different light emission wavelengths, and a photoelectric conversion unit which photoelectrically converts an image of an object illuminated by said plurality of light sources, ~~and an interface~~ said apparatus being detachably connectable to a control apparatus through an interface,

wherein said plurality of light sources further comprises a receiving unit which receives an instruction from the control apparatus from a program corresponding to one of a first mode and a second mode, and turn-on means for effecting turn-on control according to the received instruction.

66. (Previously Presented) An apparatus according to Claim 65, wherein in both the first mode and the second mode, said plurality of light sources are controlled so as to be turned on in a predetermined order.

67. (Previously Presented) An apparatus according to Claim 65, wherein in both the first mode and the second mode, said plurality of light sources are turned on in a predetermined order in such a manner that turn-on time periods of said plurality of light sources do not overlap with each other.

68. (Previously Presented) An apparatus according to Claim 65, wherein in the first mode, a signal accumulated in said photoelectric conversion unit in response to turn-on of each of the light sources is read out sequentially in a first line period, and in the second mode, a signal accumulated in said photoelectric conversion unit throughout turn-on of said plurality of light sources is read out in the first line period once every time said plurality of light sources are turned on in a predetermined order.

69. (Currently Amended) A control method of a control apparatus which is detachably connectable through an interface to an image reading apparatus comprising including a plurality of light sources of mutually different light emission wavelengths, and photoelectric conversion means for photoelectrically converting an image of an object illuminated by the plurality of light sources, said control method comprising:

a read-out step of reading out from a memory included in the control apparatus, a program corresponding to a selected mode in each of case that a first read mode is selected and case that a second read mode for effecting light source turn-on control different from that of the first read mode; and

a turn-on control step of effecting control of turn-on of the plurality of light sources corresponding to the selected mode, through the interface according to the program read out from the memory.

70. (Previously Presented) A method according to Claim 69, wherein in the first read mode and the second read mode, the plurality of light sources are controlled so as to be turned on in a predetermined order.

71. (Previously Presented) A method according to Claim 69, wherein in both the first read mode and the second read mode, the plurality of light sources are turned on in a predetermined order in such a manner that turn-on time periods of the plurality of light sources do not overlap with each other.

72. (Previously Presented) A method according to Claim 69, wherein in the first read mode, a signal accumulated in the photoelectric conversion means in response to turn-on of each of the light sources is read out sequentially in a first line period, and in the second read mode, a signal accumulated in the photoelectric conversion means throughout turn-on of the plurality of light sources is read out in the first line period once every time the plurality of light sources are turned on in a predetermined order.

73. (Previously Presented) A storage medium for computer-readably storing a program for executing a control method defined in Claim 69 in a control apparatus.

74. (Currently Amended) A control method of an image reading apparatus ~~comprising~~ including a plurality of light sources of mutually different light

emission wavelengths, and photoelectric conversion means for photoelectrically converting an image of an object illuminated by the plurality of light sources, ~~and an interface wherein~~ said apparatus is detachably connectable to a control apparatus through an interface, comprising sending wherein the plurality of light sources receives an instruction from the control apparatus to the plurality of light sources, wherein said instruction which is based on a program corresponding to one of a first read mode and a second read mode, and effects turn-on control according to the received instruction.

75. (Previously Presented) A method according to Claim 74, wherein in both the first read mode and the second read mode, the plurality of light sources are controlled so as to be turned on in a predetermined order.

76. (Previously Presented) An apparatus according to Claim 74, wherein in the first read mode and the second read mode, the plurality of light sources are turned on in a predetermined order in such a manner that turn-on time periods of the plurality of light sources do not overlap with each other.

77. (Previously Presented) A method according to Claim 74, wherein in the first read mode, a signal accumulated in the photoelectric conversion means in response to turn-on of each of the light sources is read out sequentially in a first line period, and in the second read mode, a signal accumulated in the photoelectric conversion means

throughout turn-on of the plurality of light sources is read out in the first line period once every time the plurality of light sources are turned on in a predetermined order.

78. (Previously Presented) A storage medium for computer-readably storing a program for executing a control method defined in Claim 74 in an image reading apparatus.